

## Patent Abstracts of Japan

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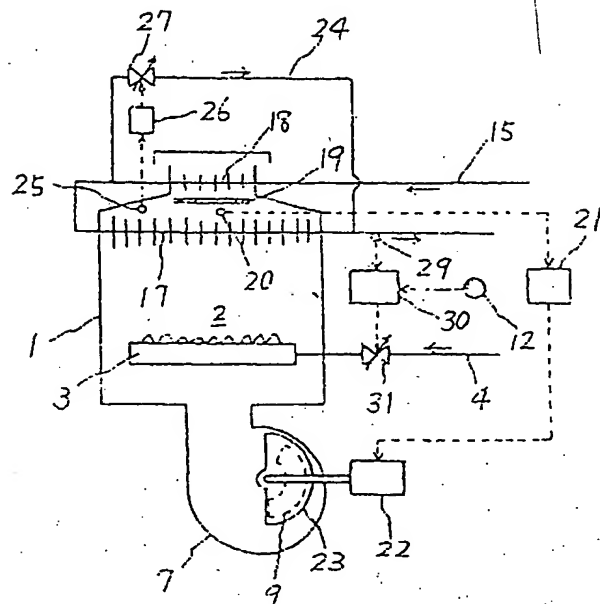
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TITLE : FORCED DRAFT TYPE BURNER



**ABSTRACT :** PURPOSE: To control an amount of air of a fan, make a concentration of oxygen in a combustion chamber most appropriate value and enable a complete combustion of the fuel to be performed by a method wherein a combustion chamber temperature sensor for adjusting a temperature of the combustion chamber in an effective range of oxidation catalyst placed in the combustion chamber is arranged.

CONSTITUTION: A fan 7 is driven, combustion is performed in a combustion chamber 3, water is flowed in a water passage 15, a hot water temperature at an outlet port of a heat exchanger 17 is increased and the hot water temperature is detected by a hot water temperature sensor 29. The combustion gas after heat exchanged by a heat exchanger 17 in the combustion chamber 2 is oxidized with oxidation catalyst 19, resulting in producing the combustion completed gas. In turn, a concentration of oxygen in the combustion chamber 2 is detected by an oxygen concentration sensor 20 and the air volume control unit 21 may detect an excessive or lack of oxygen as compared with the theoretical air volume so as to control an air volume of the fan 7. Therefore, an efficiency of combustion is substantially improved.

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